

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.

Application Serial Number:

10/019,198B

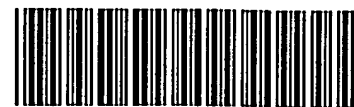
Source:

IFW16

Date Processed by STIC:

5-26-06

ENTERED



IFW16

RAW SEQUENCE LISTING

DATE: 05/26/2006

PATENT APPLICATION: US/10/019,198B

TIME: 12:10:21

Input Set : A:\9013-42.ST25.TXT

Output Set: N:\CRF4\05262006\J019198B.raw

```

3 <110> APPLICANT: Proud, Christopher Gregory
4      Herbert, Terrence Patrick
5      Lane, David Philip
6      Fahraeus, Robin
8 <120> TITLE OF INVENTION: USE OF PEPTIDES
10 <130> FILE REFERENCE: 9013-42
12 <140> CURRENT APPLICATION NUMBER: US 10/019,198B
C--> 13 <141> CURRENT FILING DATE: 2002-06-19
15 <150> PRIOR APPLICATION NUMBER: PCT/GB00/02414
16 <151> PRIOR FILING DATE: 2000-09-18
18 <150> PRIOR APPLICATION NUMBER: GB 9914480.0
19 <151> PRIOR FILING DATE: 1999-06-21
21 <160> NUMBER OF SEQ ID NOS: 22
23 <170> SOFTWARE: PatentIn version 3.3
25 <210> SEQ ID NO: 1
26 <211> LENGTH: 12
27 <212> TYPE: PRT
28 <213> ORGANISM: Homo sapiens
30 <400> SEQUENCE: 1
32 Lys Lys Arg Tyr Asp Arg Glu Phe Leu Leu Gly Phe
33 1      5      10
36 <210> SEQ ID NO: 2
37 <211> LENGTH: 12
38 <212> TYPE: PRT
39 <213> ORGANISM: Triticum aestivum
41 <400> SEQUENCE: 2
43 Arg Val Arg Tyr Ser Arg Asp Gln Leu Leu Asp Leu
44 1      5      10
47 <210> SEQ ID NO: 3
48 <211> LENGTH: 10
49 <212> TYPE: PRT
50 <213> ORGANISM: Homo sapiens
53 <220> FEATURE:
54 <221> NAME/KEY: MISC_FEATURE
55 <222> LOCATION: (10)..(10)
56 <223> OTHER INFORMATION: Xaa can be Leu or Met
58 <400> SEQUENCE: 3
W--> 60 Arg Ile Ile Tyr Asp Arg Lys Phe Leu Xaa
61 1      5      10
64 <210> SEQ ID NO: 4
65 <211> LENGTH: 7
66 <212> TYPE: PRT
67 <213> ORGANISM: Artificial

```

RAW SEQUENCE LISTING

DATE: 05/26/2006

PATENT APPLICATION: US/10/019,198B

TIME: 12:10:22

Input Set : A:\9013-42:ST25.TXT

Output Set: N:\CRF4\05262006\J019198B.raw

```

69 <220> FEATURE:
70 <223> OTHER INFORMATION: Consensus peptide
73 <220> FEATURE:
74 <221> NAME/KEY: misc_feature
75 <222> LOCATION: (2)..(5)
76 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
78 <220> FEATURE:
79 <221> NAME/KEY: MISC_FEATURE
80 <222> LOCATION: (7)..(7)
81 <223> OTHER INFORMATION: Xaa can be Leu, Met or Phe
83 <400> SEQUENCE: 4
W--> 85 Tyr Xaa Xaa Xaa Xaa Leu Xaa
      86 1          5
89 <210> SEQ ID NO: 5
90 <211> LENGTH: 10
91 <212> TYPE: PRT
92 <213> ORGANISM: Artificial
94 <220> FEATURE:
95 <223> OTHER INFORMATION: Consensus peptide
98 <220> FEATURE:
99 <221> NAME/KEY: MISC_FEATURE
100 <222> LOCATION: (1)..(1)
101 <223> OTHER INFORMATION: Xaa can be Lys or Arg
103 <220> FEATURE:
104 <221> NAME/KEY: misc_feature
105 <222> LOCATION: (2)..(3)
106 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
108 <220> FEATURE:
109 <221> NAME/KEY: misc_feature
110 <222> LOCATION: (5)..(7)
111 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
113 <220> FEATURE:
114 <221> NAME/KEY: MISC_FEATURE
115 <222> LOCATION: (8)..(8)
116 <223> OTHER INFORMATION: Xaa can be Phe or Gln
118 <220> FEATURE:
119 <221> NAME/KEY: MISC_FEATURE
120 <222> LOCATION: (10)..(10)
121 <223> OTHER INFORMATION: Xaa can be Leu or Met
123 <400> SEQUENCE: 5
W--> 125 Xaa Xaa Xaa Tyr Xaa Xaa Xaa Xaa Leu Xaa
      126 1          5          10
129 <210> SEQ ID NO: 6
130 <211> LENGTH: 16
131 <212> TYPE: PRT
132 <213> ORGANISM: Artificial
134 <220> FEATURE:
135 <223> OTHER INFORMATION: Penetratin: membrane translocation peptide
137 <400> SEQUENCE: 6

```

RAW SEQUENCE LISTING

DATE: 05/26/2006

PATENT APPLICATION: US/10/019,198B

TIME: 12:10:22

Input Set : A:\9013-42.ST25.TXT

Output Set: N:\CRF4\05262006\J019198B.raw

```

139 Arg Gln Ile Lys Ile Trp Phe Gln Asn Arg Arg Met Lys Trp Lys Lys
140 1          5          10          15
143 <210> SEQ ID NO: 7
144 <211> LENGTH: 30
145 <212> TYPE: PRT
146 <213> ORGANISM: Homo sapiens
148 <400> SEQUENCE: 7
150 Lys Lys Arg Tyr Asp Arg Glu Phe Leu Leu Gly Phe Ala Ala Arg Gln
151 1          5          10          15
154 Ile Lys Ile Trp Phe Gln Asn Arg Arg Met Lys Trp Lys Lys
155          20          25          30
158 <210> SEQ ID NO: 8
159 <211> LENGTH: 30
160 <212> TYPE: PRT
161 <213> ORGANISM: Artificial
163 <220> FEATURE:
164 <223> OTHER INFORMATION: Scrambled eIF4G sequence
166 <400> SEQUENCE: 8
168 Phe Asp Leu Lys Phe Ala Leu Gly Arg Tyr Arg Ala Glu Lys Arg Gln
169 1          5          10          15
172 Ile Lys Ile Trp Phe Gln Asn Arg Arg Met Lys Trp Lys Lys
173          20          25          30
176 <210> SEQ ID NO: 9
177 <211> LENGTH: 12
178 <212> TYPE: PRT
179 <213> ORGANISM: Saccharomyces cerevisiae
181 <400> SEQUENCE: 9
183 Lys Tyr Thr Tyr Gly Pro Thr Phe Leu Leu Gln Phe
184 1          5          10
187 <210> SEQ ID NO: 10
188 <211> LENGTH: 12
189 <212> TYPE: PRT
190 <213> ORGANISM: Homo sapiens
192 <400> SEQUENCE: 10
194 Arg Ile Ile Tyr Asp Arg Lys Phe Leu Met Glu Cys
195 1          5          10
198 <210> SEQ ID NO: 11
199 <211> LENGTH: 12
200 <212> TYPE: PRT
201 <213> ORGANISM: Homo sapiens
203 <400> SEQUENCE: 11
205 Arg Ile Ile Tyr Asp Arg Lys Phe Leu Leu Asp Arg
206 1          5          10
209 <210> SEQ ID NO: 12
210 <211> LENGTH: 14
211 <212> TYPE: PRT
212 <213> ORGANISM: Homo sapiens
214 <400> SEQUENCE: 12
216 Lys Lys Arg Tyr Asp Arg Glu Phe Leu Leu Gly Phe Ala Ala

```

RAW SEQUENCE LISTING

DATE: 05/26/2006

PATENT APPLICATION: US/10/019,198B

TIME: 12:10:22

Input Set : A:\9013-42.ST25.TXT

Output Set: N:\CRF4\05262006\J019198B.raw

```

217 1          5          10
220 <210> SEQ ID NO: 13
221 <211> LENGTH: 14
222 <212> TYPE: PRT
223 <213> ORGANISM: Artificial
225 <220> FEATURE:
226 <223> OTHER INFORMATION: Mutagenized human hu 4G sequence
228 <400> SEQUENCE: 13
230 Lys Lys Arg Ala Asp Arg Glu Phe Ala Ala Gly Phe Ala Ala
231 1          5          10
234 <210> SEQ ID NO: 14
235 <211> LENGTH: 14
236 <212> TYPE: PRT
237 <213> ORGANISM: Triticum aestivum
239 <400> SEQUENCE: 14
241 Arg Val Arg Tyr Ser Arg Asp Gln Leu Leu Asp Leu Ala Ala
242 1          5          10
245 <210> SEQ ID NO: 15
246 <211> LENGTH: 14
247 <212> TYPE: PRT
248 <213> ORGANISM: Artificial
250 <220> FEATURE:
251 <223> OTHER INFORMATION: Mutagenized wheat hu 4G sequence
253 <400> SEQUENCE: 15
255 Arg Val Arg Ala Ser Arg Asp Gln Ala Ala Asp Leu Ala Ala
256 1          5          10
259 <210> SEQ ID NO: 16
260 <211> LENGTH: 14
261 <212> TYPE: PRT
262 <213> ORGANISM: Artificial
264 <220> FEATURE:
265 <223> OTHER INFORMATION: Scrambled hu 4G sequence
267 <400> SEQUENCE: 16
269 Phe Asp Leu Lys Phe Ala Leu Gly Arg Tyr Arg Ala Glu Lys
270 1          5          10
273 <210> SEQ ID NO: 17
274 <211> LENGTH: 12
275 <212> TYPE: PRT
276 <213> ORGANISM: Artificial
278 <220> FEATURE:
279 <223> OTHER INFORMATION: Mutagenized human eIF4G peptide
281 <400> SEQUENCE: 17
283 Lys Lys Arg Ala Asp Arg Glu Phe Ala Ala Gly Phe
284 1          5          10
287 <210> SEQ ID NO: 18
288 <211> LENGTH: 12
289 <212> TYPE: PRT
290 <213> ORGANISM: Artificial
292 <220> FEATURE:

```

RAW SEQUENCE LISTING

DATE: 05/26/2006

PATENT APPLICATION: US/10/019,198B

TIME: 12:10:22

Input Set : A:\9013-42.ST25.TXT

Output Set: N:\CRF4\05262006\J019198B.raw

293 <223> OTHER INFORMATION: Mutagenized human eIF4G peptide
 295 <400> SEQUENCE: 18
 297 Lys Lys Arg Ala Asp Arg Glu Phe Leu Leu Gly Phe
 298 1 5 10
 301 <210> SEQ ID NO: 19
 302 <211> LENGTH: 12
 303 <212> TYPE: PRT
 304 <213> ORGANISM: Artificial
 306 <220> FEATURE:
 307 <223> OTHER INFORMATION: Mutagenized human eIF4G peptide
 309 <400> SEQUENCE: 19
 311 Lys Lys Arg Tyr Asp Arg Glu Phe Ala Leu Gly Phe
 312 1 5 10
 315 <210> SEQ ID NO: 20
 316 <211> LENGTH: 12
 317 <212> TYPE: PRT
 318 <213> ORGANISM: Artificial
 320 <220> FEATURE:
 321 <223> OTHER INFORMATION: Mutagenized wheat eIF4G peptide
 323 <400> SEQUENCE: 20
 325 Arg Val Arg Ala Ser Arg Asp Gln Ala Ala Asp Leu
 326 1 5 10
 329 <210> SEQ ID NO: 21
 330 <211> LENGTH: 12
 331 <212> TYPE: PRT
 332 <213> ORGANISM: Artificial
 334 <220> FEATURE:
 335 <223> OTHER INFORMATION: Mutagenized human 4E-BP2 peptide
 337 <400> SEQUENCE: 21
 339 Arg Ile Ile Ala Asp Arg Lys Phe Ala Ala Asp Arg
 340 1 5 10
 343 <210> SEQ ID NO: 22
 344 <211> LENGTH: 12
 345 <212> TYPE: PRT
 346 <213> ORGANISM: Artificial
 348 <220> FEATURE:
 349 <223> OTHER INFORMATION: Mutagenized human 4E-BP1 peptide
 351 <400> SEQUENCE: 22
 353 Arg Ile Ile Ala Asp Arg Lys Phe Ala Ala Glu Cys
 354 1 5 10

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/019,198B

DATE: 05/26/2006
TIME: 12:10:23

Input Set : A:\9013-42.ST25.TXT
Output Set: N:\CRF4\05262006\J019198B.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:3; Xaa Pos. 10 ✓
Seq#:4; Xaa Pos. 2,3,4,5,7 ✓
Seq#:5; Xaa Pos. 1,2,3,5,6,7,8,10 ✓

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete, per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:4,5,6,8,13,15,16,17,18,19,20,21,22

VERIFICATION SUMMARY

DATE: 05/26/2006

PATENT APPLICATION: US/10/019,198B

TIME: 12:10:23

Input Set : A:\9013-42.ST25.TXT

Output Set: N:\CRF4\05262006\J019198B.raw

L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:60 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0

L:85 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0

L:125 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0